

PANYUSHKIN, S.I., inzhener,

Modernization of soil-working machinery in connection with  
T.S.Maltsev's agricultural system. Sel'khozmashina no.1:10-  
12 Ja '55. (MLRA 8:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'sko-  
khozyaystvennogo mashinostroyeniya.  
(Agricultural machinery)

LIKHOYEDENKO, K.I.; PANYUSHKIN, S.N.; ZHIGAREV, I.P.

Working parts of plant hole diggers. Trakt. i sel'khozmash. no.9:20-24  
S '58. (MIRA 11:10)

(Agricultural implements)

L 6462-66 EWT(m)/EPF(c)/EPF(n)-2/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) IJP(c)

ACC NR: AP5025250 JD/HW

SOURCE CODE: UR/0386/65/002/004/0153/0157

AUTHOR: Panyushkin, V. N.; Voronov, F. F.

ORG: Institute of Physics of High Pressures, Academy of Sciences SSSR (Institut fiziki vysokikh davlenii Akademii nauk SSSR)

TITLE: The Mossbauer effect in metallic tin at pressures up to 110 kbar

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu (Prilozheniye), v. 2, no. 4, 1965, 153-157

TOPIC TAGS: tin, Mossbauer effect, Mossbauer spectrum, pressure effect, high pressure research

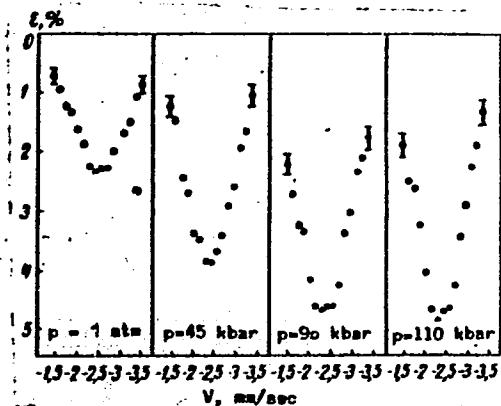
ABSTRACT: The Mossbauer effect was used to study the properties of metallic tin ( $\beta$ -Sn) because its large compressibility gives grounds for hoping to obtain distinctly noticeable pressure effects. In particular, a large increase is expected in the probability of emission of recoilless  $\gamma$  quanta and the isomeric shifts with pressure. A high-pressure chamber resembling chambers with flat anvil and tablet of amorphous boron, similar to that used in work on x-ray structural analysis at high pressure, was employed. A  $\beta$ -Sn source in the form of a foil  $20 \mu$  thick, containing  $\text{Sn}^{119m}$ , was placed in the pressure chamber. The pressure in the chamber was calibrated against the jumps of the electric resistivity at known polymorphic transitions in bismuth, thallium, and barium. The calibration curve was linear and was linearly extrapolated to 110 kbar. The setup for the observation of the Mossbauer effect was similar to the constant-speed setup described by K. P. Aleshin et al. (PTZ no. 4, 43-49, 1964). All the mea-

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ACC NR: AP5025250

Fig. 1. Resonance curves for different pressures.



surements were made with the source and absorber at room temperature. The resonance curves for each experiment were plotted at pressures of 1 atm and 45, 90, and 100 kbar. Sample resonance curves for different pressures are shown in Fig. 1. The results show that the depth of the resonance increases with increasing pressure, and the half-widths of the resonance curves remain constant. Comparison of the areas of the resonance curves for different pressures with the area of the curve at atmospheric pressure yields the pressure dependence of the probability of recoilless  $\gamma$ -quantum

Card 2/4

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ACC NR. A15025250

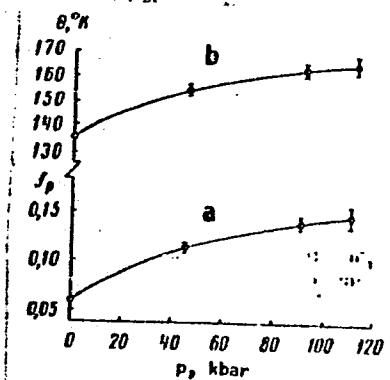


Fig. 2. Dependence on the pressure  $P$ : a - of the probability of recoilless  $\gamma$ -quantum emission  $f_p$ , b - of the effective Debye temperature  $\theta$ .

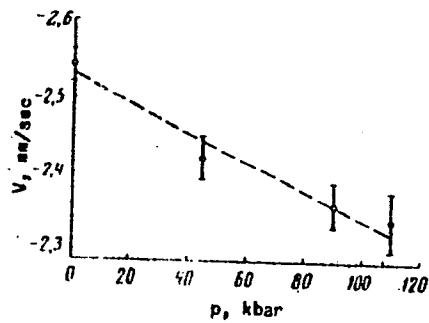


Fig. 3. Pressure dependence of the position of the resonance line of  $\beta$ -Sn relative to the energy of the resonance in  $\text{SrO}_2$ .

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ACC NR: AP5025250

emission  $f_p$  and the increase of the corresponding effective Debye temperature  $\theta$  with increasing pressure. These are shown in Fig. 2. The obtained dependence yields an estimate  $\gamma = 2.4 \pm 0.3$  for the Gruneisen constant at atmospheric pressure, which agrees well with the value  $\gamma = 2.25$  calculated by the Gruneisen formula. Another result of the experimental curves is the shift in the energy of the resonance in  $\beta$ -Sn towards the energy of the resonance in  $\text{SnO}_2$ , shown in Fig. 3. Authors thank L. F. Vereshchagin and Ye. N. Yakovlev for support and interest in the work, V. V. Sklyar, V. V. Revskiy, N. N. Filippov, and K. P. Aleshin for help in constructing the Mossbauer spectrometer, N. N. Delyagin for a useful discussion of the results, and also Yu. T. Babotin and V. A. Guzov for participating in the experiments. Orig. art. has: 3 figures.

24

SUB CODE: GP SUBM DATE: 09Jun65/ ORIG REF: 006/ OTH REF: 006

nm  
Card 4/4

PANYUSHKIN, V.T.; MAL'TSEV, V.S.

Calculating hydrodynamic potentials of aluminum suboxides. Izv.  
Inst.met.i chog. AN Kazakh.SSR 11:79-82 '64.  
(MIRA 18:4)

L 31860-65 EPA(e)-2/EWT(m)/EPR/EWP(t)/EWP(b) Ps-4/Pt-10 IJP(c) JD/JG  
 35  
 34  
 3B  
 S/0149/64/000/006/0070/0073

ACCESSION NR: AP5003365

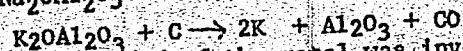
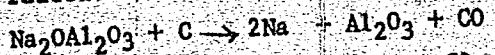
AUTHOR: Mal'tsov, V. S.; Panyushkin, V. T.; Isatayev, S. M.; Ponomarev, V. D.

TITLE: Thermal reduction of sodium and potassium alumina in a vacuum

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 6, 1954, 70-73

TOPIC TAGS: sodium aluminate, potassium aluminate, thermal reduction, vacuum reduction, carbon reduction

ABSTRACT: The object of the work was to study the reduction of sodium and potassium aluminate by carbon in a vacuum and to obtain some data on the mechanism of the process. The overall reactions are



The effect of temperature on the yield of the metal was investigated: the maximum yield of sodium (82%) was reached at 1200°C, and the maximum yield of potassium (92-93%), at 1100°C. Data from crystal optical analysis and x-ray diffraction studies led to the following conclusion: in addition to  $\beta$ -alumina, the products

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L 31860-65

ACCESSION NR: AP5003365

of thermal reduction of sodium and potassium aluminate contain active low-temperature forms of alumina,  $\delta$ - $\text{Al}_2\text{O}_3$  and  $\gamma$ - $\text{Al}_2\text{O}_3$ , both as separate phases and mixed with sodium (potassium) aluminate and  $\beta$ -alumina. When the aluminates are heated to 1200-1400°C, a new phase,  $\chi$ - $\text{Al}_2\text{O}_3$ , is formed whose amount increases with rising temperature and increasing duration of the experiment. Crig. art. has: 1 figure, 1 table and 2 formulas.

ASSOCIATION: Kafedra metallurgii legkikh i redkikh metallov, Kasakhskiy politekhnicheskiy institut (Light and rare metals metallurgy department, Kazakh polytechnic institute)

SUBMITTED: 26 Nov 83

ENCL: 00

SUB CODE: MM

TYPE: 001

DATE: 001

Card 2/2

MAL'TSEV, V.S.; PANYUSHKIN, V.T.; ISABAYEV, S.M.; PONOMAREV, V.N.

Thermal reduction of sodium and potassium aluminates in vacuum.  
Izv. vys. ucheb. zav.; tezvet. met. 7 no.6:70-73 '64.

(MIRA 13:3)

I. Kazakhskiy politekhnicheskiy institut, kafedra metalurgii  
legkikh i redkikh metallov.

L 34095-66 EWP(e)/EWI(m)/~~EWP(t)~~/ETI IJP(c) JD/JG/AT/WH/JH  
ACC NR: AP6008802 SOURCE CODE: UR/0360/65/000/003/0046/0054

AUTHOR: Mal'tsev, V. S.; Arakelyan, O. I.; Ponomarev, V. D.; Panyushkin, V. T.;  
Isabayev, S. M.

ORG: none

1 1  
TITLE: Formation of beta-Al<sub>2</sub>O<sub>3</sub> during carbothermic reduction of sodium aluminate

SOURCE: AN KazSSR. Izvestiya. Seriya khimicheskikh nauk, no. 3, 1965, 46-54

TOPIC TAGS: alumina, aluminate, carbon, chemical reduction

ABSTRACT: The composition of the phases formed during the vacuum carbothermic reduction of sodium aluminate and the conditions of formation of  $\beta$ -alumina in the products of this reduction were studied. The reaction products were analyzed by chemical and petrographic methods, and in some cases by x-ray structural analysis. The following optimum conditions of the reduction were found: a reaction temperature of 1200°C, holding for 2 hr at this temperature, residual pressure of 0.4 – 1.0 mm Hg, excess of reductant (carbon) up to 75% of stoichiometry according to the reaction  $\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 + \text{C} \rightarrow 2\text{Na} + \text{Al}_2\text{O}_3 + \text{CO}$ . Practically pure alumina with a small admixture of sodium oxide (up to

Card 1/2

MAL'TSEV, V.S.; ARAKELYAN, O.I.; PONOMAREV, V.D.; PANYUSHKIN, V.T.; ISABAYEV,  
S.M.

Formation of  $\beta$ -Al<sub>2</sub>O<sub>3</sub> in the process of carbothermal reduction  
of sodium aluminate. zv. AN Kazakh SSR Ser. khim. nauk 15  
no. 3:46-54 Jl-Ag '65.

(MIRA 18:11)

1. Submitted December 21, 1964.

MAL'TSEV, V.S.; PANYUSHKIN, V.T.; PONOMAREV, V.D.

Investigating the reducibility of alkali aluminates in vacuum.

Trudy Inst. met. i obog. AN Kazakh. SSR 12:125-130 '65.  
(MIRA 18:10)

ISABAYEV, S.M.; PANYUSHKIN, V.T.; MAL'TSEV, V.S.; BUKETOV, Ye.A.

Aluminothermic reduction of sodium aluminate in vacuum. Trudy Inst.  
met. i obog. Ak Kazakh. SSR 12:131-135 '65.

(MIRA 18:10)

MAL'TSEV, V.S.; PONOMAREV, V.D.; DANYUKHEKIN, V.T.; ISABAYEV, I.M.

Data on the mechanism of thermal decomposition and recombination of  
sodium and potassium hydroaluminates. Trudy Inst. met. I. obog.  
AN Kazakh. SSR 12:136-142 '65. (MIRA 18:10)

PONOMAREV, V.D., akademik; PANYUSHKIN, V.T., kand.tekhn.nauk; MAL'TSEV, V.S.,  
kand.tekhn.nauk

Mechanism of physical and chemical conversions during carbothermic  
reduction of artificial nepheline. Vest. AN Kazakh. SSR 21 no.7:32-35  
Jl '65.  
(MIRA 78:8)

1. Akademiya nauk Kazakhskoy SSR (for Ponomarev).

PANYUSHKIN, Ye., starshiy nauchnyy sotrudnik

Orenburg combine operators introduce improvements in harvesting machinery. Nauka i pered.op.v sel'khoz. 9 no.8:7-10  
Ag '59. (MIRA 12:12)

1. Orenburgskaya oblastnaya sel'skokhozyaystvennaya optytnaya stantsiya.  
(Combines(Agricultural machinery))

PANYUSHKIN, Ye.

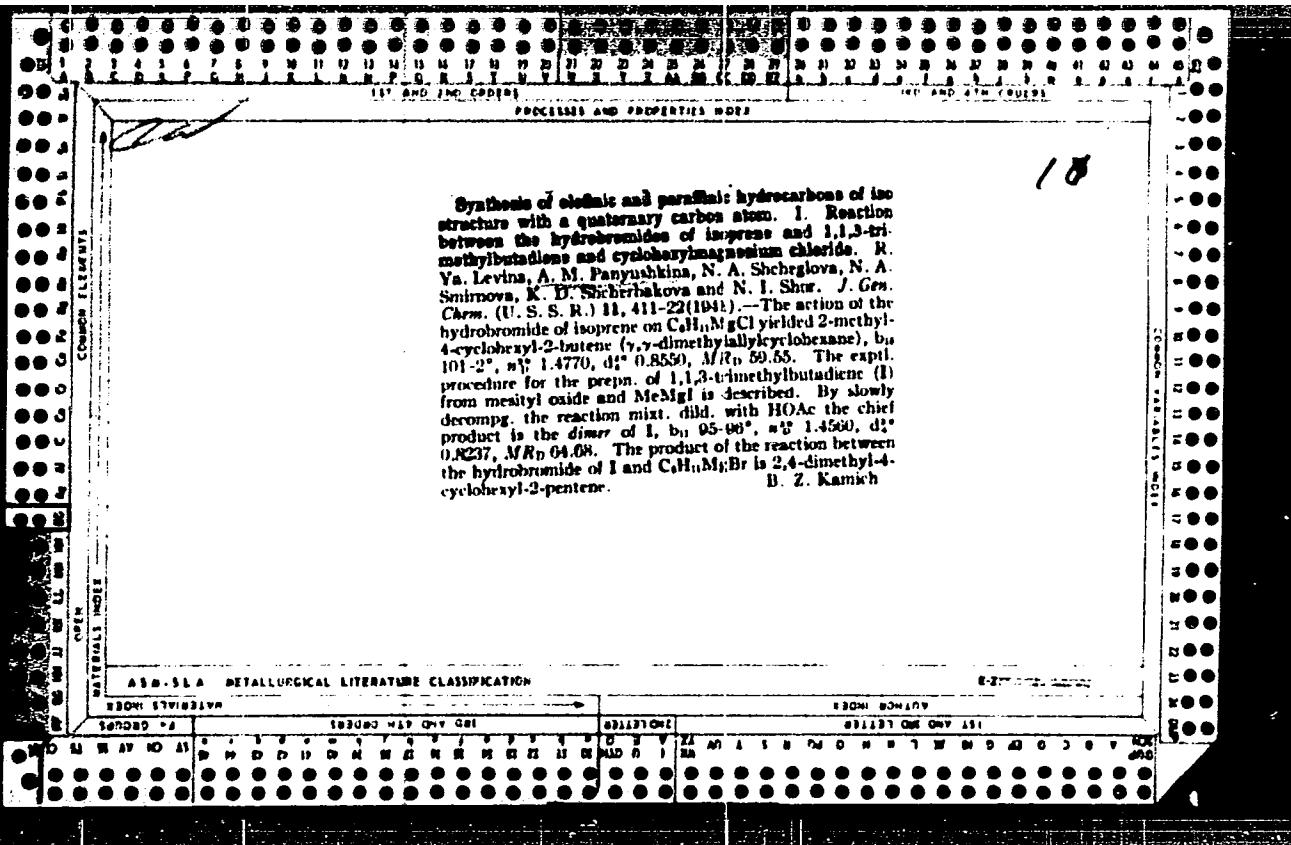
Grain from three reapers into one windrow. Tekh.v sel'khoz. 21  
no.8:67-70 Ag '61. (MIRA 14:7)

1. Orenburgskaya sel'skokhozyaystvennaya opytnaya stantsiya.  
(Grain—Harvesting)

PANYUSHKIN, Ye.P.

Automatic control of the operation of air turboblowers. Gidroliz. i  
lesokhim.prom. 14 no.4:25 '61. (MIRA 14:5)

1. Saratovskiy gidroliznyy zavod.  
(Saratov--Hydrolysis)  
(Turboblowers)



CHIGAREV, G.A.; PANYUSHKINA, A.M.; KAYUDIN, I.A.; SAZONIK, Kh.V.; YUREVICH,  
I.A.

Field tests of dieldrin against the Colorado beetle. Zashch. rast.  
ot vred. i bol. 7 no.3:53-54 Mr '62. (MIRA 15:11)  
(Potato beetle--Extermination) (Dieldrin)

PANYUSHKINA, Ye.G.

KOROBOKHIN, I.Yu., inzh.; PROTSKIY, N.Ye., inzh.; PANYUSHKINA, Ye.G., inzh.

Increasing the strength of calibers used in pipe cold rolling mills  
at the Nikopol' Southern Pipe Plant. Biul. TSMIIGHM no.1:20-24 '58.  
(Nikopol'—Rolling mills) (MIRA 11:5)

PROTSKIY, N.Ye., inzh.; PANYUSHKINA, Ye.G., inzh.

Increasing the durability of rolls on the 400 automatic mill.  
Met. i gornorud. prom. no.2:29-36 Mr-Ap '62. (MIRA 15:11)

1. Nikopolskiy yuzhnortrubnyy zavod.  
(Rolls (Iron mills))

SADOKOV, G.M.; NOSKO, V.S.; PROTSKIY, N.Ye.; PANYUSHKINA, Ye.G.

Durability of extruding ring dies on mechanical extrusion  
presses. Met. i gornorud. prom. no.6:67-68 N.D '65.  
(MIRA 18:12)

LIKHTENSHTEYN, V.A.; SULEYMANOVA, A.G.; PANYUSHNO, D.G.

Some clinical and diagnostic problems in neurobrucellosis.  
Zhur. nevr. i psikh. 61 no.7:1000-1004 '61. (MIRA 15:6)

1. Klinika nervnykh bolesney Dagestanskogo meditsinskogo  
instituta i Dagestanskoy Respublikanskoy klinicheskoy  
bol'nitsy.

(BRUCELLOSIS)  
(NERVOUS SYSTEM--DISEASES)

PANYUTIN, A. G.

N/5  
661.6

Osnovy stroitel'nogo delo (Fundamentals Of Building) izd. 4., perer.  
Moskva, Gos. izd-vo lit. po Stroitel'stvu i Arkhitekture, 1954.

.P2  
1954

326 p. illus., diagrs., plans, tables.

PANYUTIN, A.G., professor, doktor tekhnicheskikh nauk; SERK, I.A., doktor tekhnicheskikh nauk, professor, retsenzent; TEPPEHENKOV, R.I., kandidat tekhnicheskikh nauk, dotsent, nauchnyy redaktor; ROSTOVTSIEVA, M.P., redaktor; PERSON, M.H., tekhnicheskiy redaktor

[Fundamentals of building] Osnovy stroitel'nogo dela. Izd. 4-e,  
perer. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1954.  
326 p. (MIRA 7:10)  
(Building)

PREDTECHENSKIY, B.M., dotsent, kandidat tekhnicheskikh nauk.

"Principles of construction engineering." A.G.Paniutin. Reviewed by  
V.M.Predtechenskii. Stroi.prom.33 no.2:47-48 1959. (MLRA 8:4)  
(Building) (Paniutin, A.G.)

PANYUTIN, A.G., doktor tekhn. nauk, prof.

Research work at the Faculty of Building Materials of the  
Gorkiy Civil Engineering Institute. Trudy GISI no.47:3-6 '64.  
(MIRA 18:11)

PANYUTIN, Aleksey Georgiyevich, prof., doktor tekhn.nauk; PECHURO, S.S.,  
nauchnyy red.; SHPAYER, A.L., red.izd-va; STEPANOVA, E.S.,  
tekhn.red.

[Using gypsum as wall material in constructing buildings of  
few stories] Stroitel'nyi gips v stenovykh konstruktsiakh  
maloetazhnykh zdanii. Moskva, Gos.izd-vo lit-ry po stroit.,  
arkhit. i stroit.materialam, 1959. 134 p. (MIRA 13:1)  
(Gypsum) (Walls)

PANYUTIN, G.

Long-distance relay swimming. Voen.znan. 31 no.6:24 Je '56.  
(MLRA 9:10)

(Swimming)

PANTUTIN, G. V.

Gumbrino-TSkhalubskala zheleznaia droga. [Gumrion-TSkhalubo railway].  
Tiflis, 1935, 13p. illus. (polnomochennyi Narkomtashproza SSSR pri Sovnarkome  
ZSFSR).

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress  
Reference Department, Washington, 1952, Unclassified.

PANYUTIN, K., inzh.

Preparing automobiles for a long travel. Za rul. 14 no.3:17 Je '56.  
(MIRA 11:2)

1. Predsedatel' tekhnicheskoy komissii sektsii avtomototurizma  
TSentral'nogo moskovskogo avtomotokluba.  
(Automobiles--Maintenance and repair)

PANYUTIN, K.

An automobile trip from Ul'ianovsk to Yalta. Za rul. 15 no.5:insert  
p.7-11 My '57. (MIRA 10:6)  
(Automobiles--Touring)

PAMYUTIN, K., inzhener.

Results of operation M-1000 automobiles. Avtotest  
no. 6-22-24 Je '57.

1. Prevedatel' tekhnicheskoy komissii avtovizvlecheniya  
Central'nogo moskovskogo avtomotokluba Dobrovol'skogo oborony i  
sudovetvlyayushchego armii aviat. i flotu SSSR.  
(Technician--Testing)

12/14/87/M.A.  
PANYUTIN, K., inzh.

The kind of car we need. Za rul. no.12:10 D '57. (MIRA 11:1)

1.Predsedatel' tekhnicheskoy komissii sektsii ovtomototurizma  
Moskovskogo avtomotokluba Dobrovol'nogo obshchestva sodeystviya  
armii, aviatsii i flotu.  
(Automobiles)

PANYUTIN, K., inzh.

Basic operational adjustments. Za rul. 17 no.8:17-18  
Ag '59. (MIRA 12:12)  
(Automobiles--Maintenance and repair)

PANYUTIN, K. A.

A textbook for drivers of automobiles with gas generators. Moskva, Sel'khozgiz, 1945.  
204 p.

Cyr.4 TL22

PANYUTIN, K.A.

OSEPCHUGOV, V.V., inzhener, redaktor; PANYUTIN, K.A., inzhener  
retsenzent; BROKSH, V.V., inzhener, redaktor; MOSEL', B.I.,  
tekhnicheskiy redaktor.

[Three-axle motor vehicles; IaAZ-210, IaAz-210 A, IaAz-210G  
IaAz-210D, IaAz-210E; maintenance instructions] Trekhosnye  
avtomobili IaAZ-210, IaAz-210A, IaAz-210G, IaAz-210D, IaAZ-  
210E; instruktsiya po ukhodu. Moskva, Gos. nauchno-tekhn. izd-  
vo mashinostroit. lit-ry, 1952. 257 p. [Microfilm] (MLRA 7:12)

1. Russia (1923- U.S.S.R.) Ministerstvo avtomobil'noy :  
traktornoy promyshlennosti.  
(Motor trucks)

PANYUTIN, K. A.

Panyutin, K. A.

"The Driver of a Lumber  
Hauling Vehicle"

Moscow Forestry Engineering  
Institute

PANYUTIN, K.A.

PANYUTIN, K.A.

Useful advices to automobile drivers. Za ral. 14 nov. insert C-7 56.  
Automobiles and weather operation.

PANYUTIN, K., inzh.

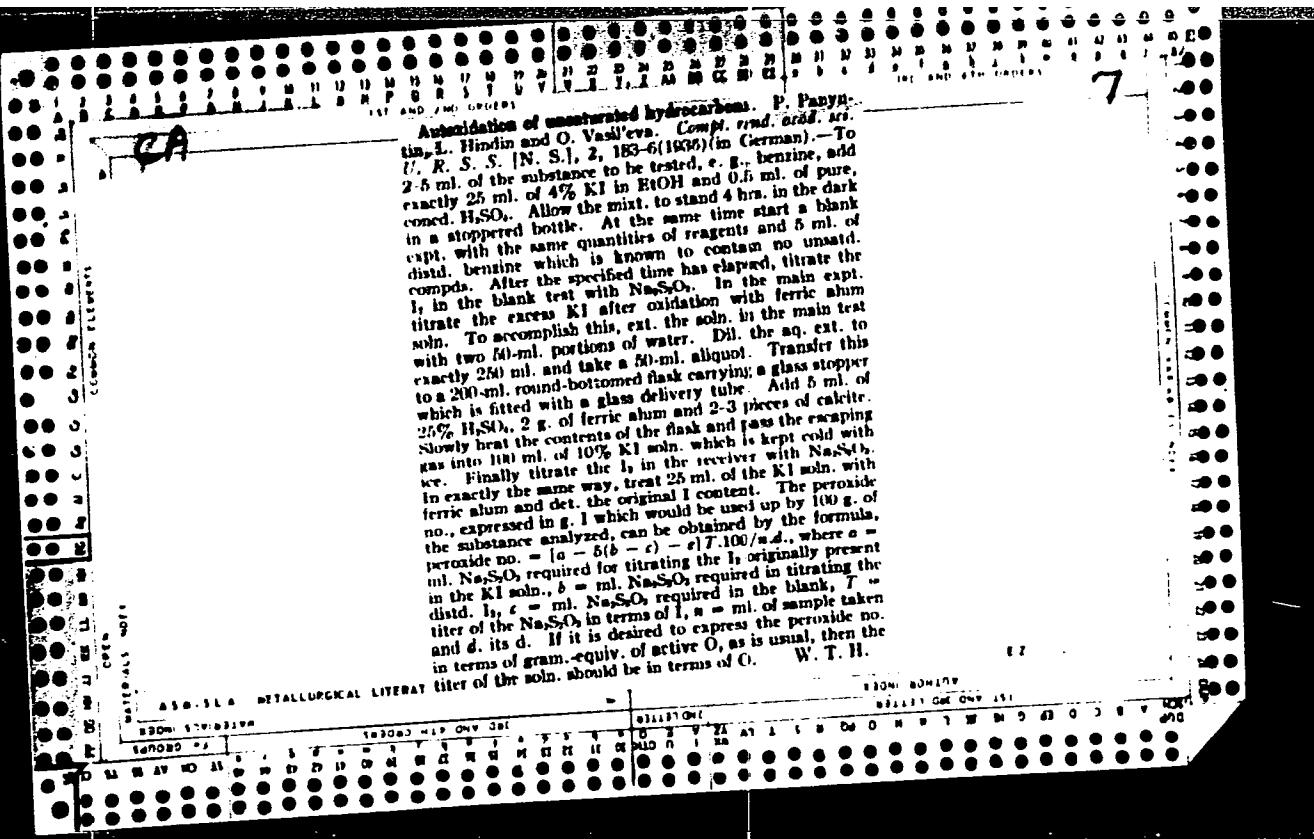
Improving the Moskvich-402 automobile. Avt.transp. 35 no.9:21  
S '57. (MIRA 10:10)

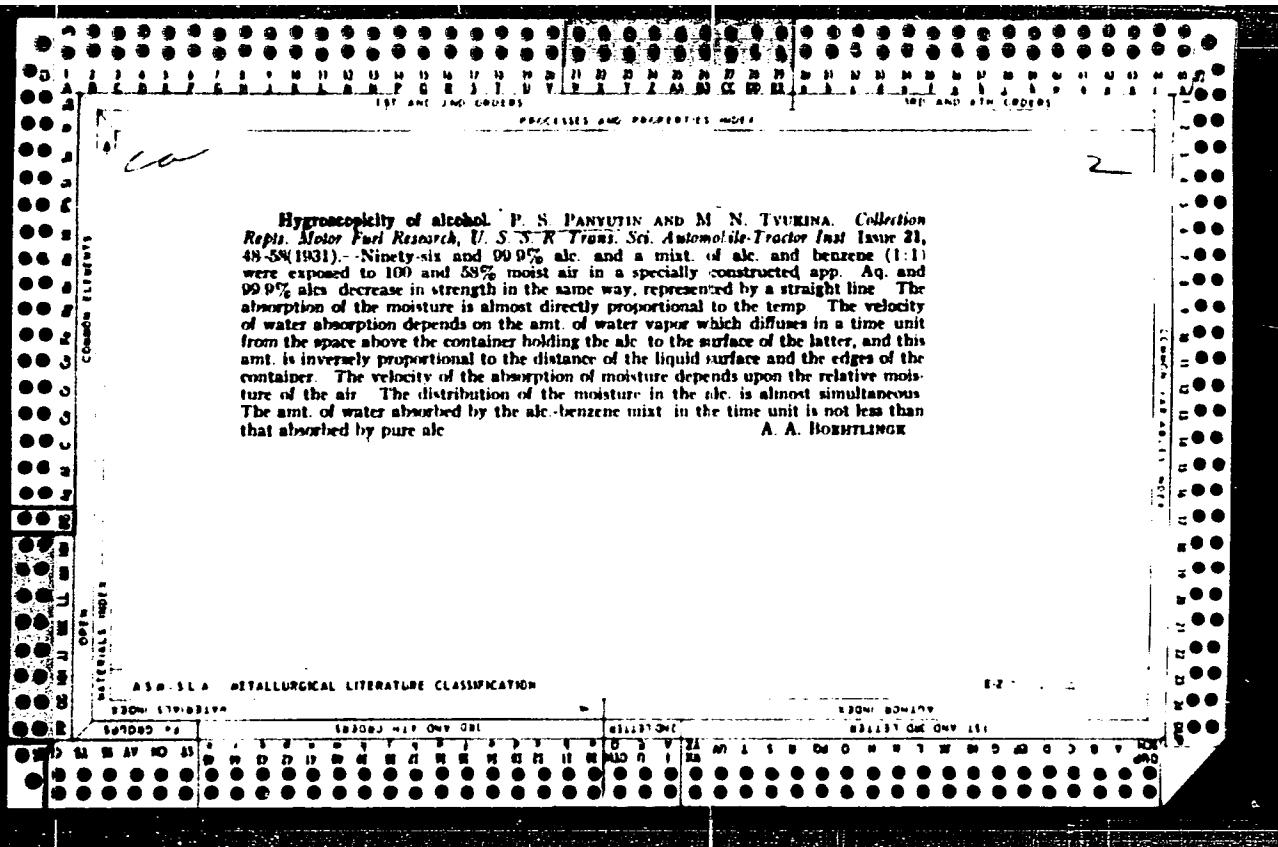
1.Predsedatel' tekhnicheskoy komissii sektsii avtoturizma  
TSentral'nogo Moskovskogo avtomotokluba Dobrovol'nogo obshchestva  
sodeystviya armii, aviatsii i flotu.  
(Automobiles)

KAMENEVA, S.P.; PANYUTIN, K.K.

Migration of some bat species. Okhr. prir. i ozel. no.3:  
117-119 '60. (MIRA 16:12)

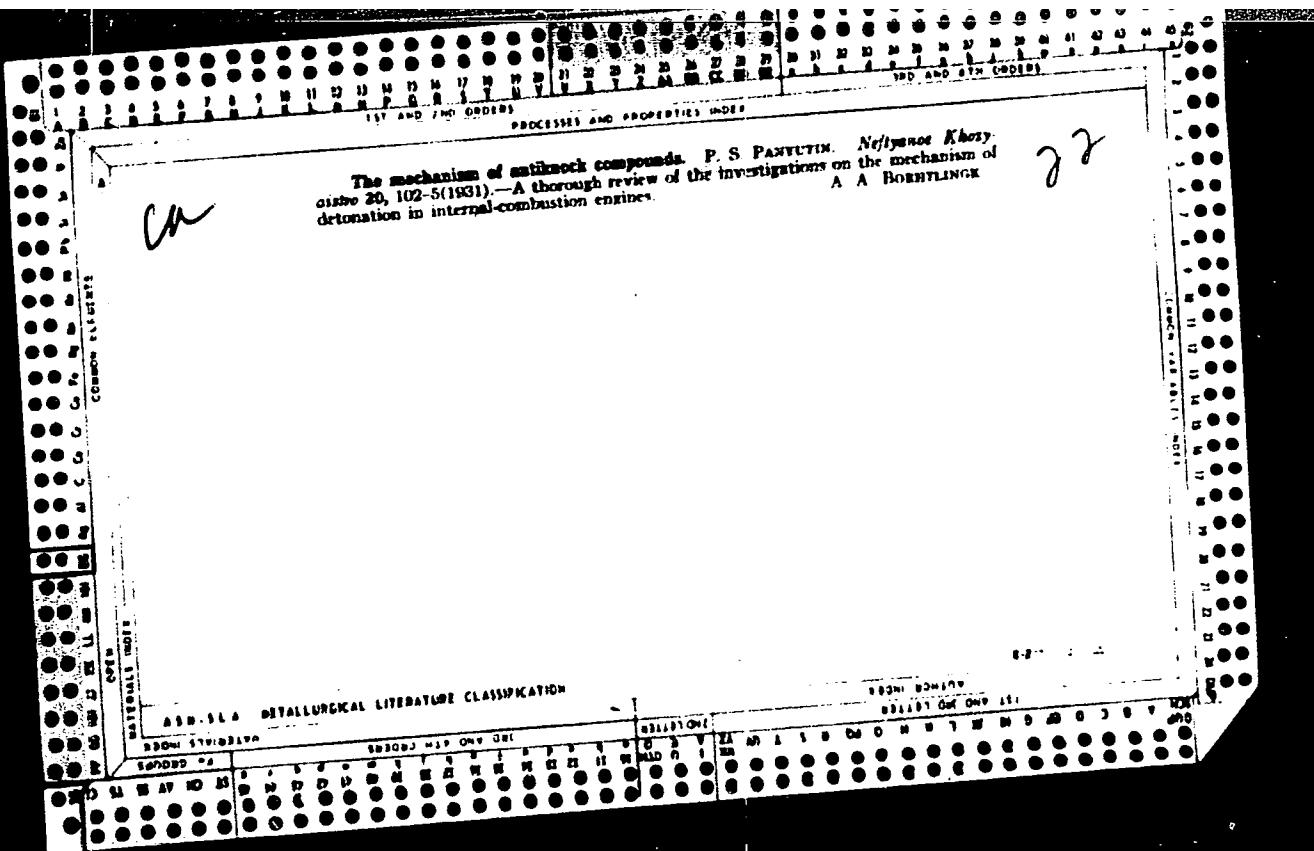
1. Chleny Vserossiyskogo obshchestva sodeystviya okhrane prirody  
i ozeleneniyu naselennykh punktov.





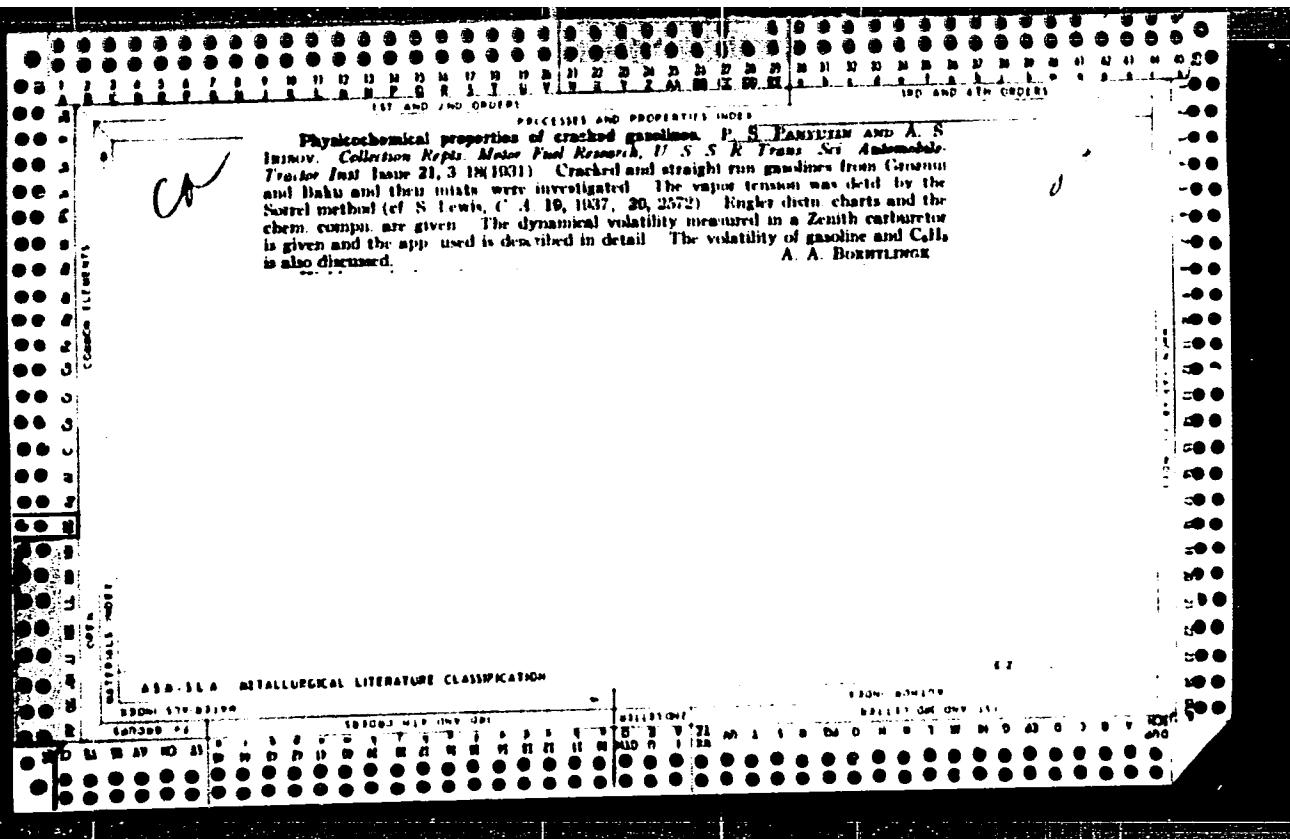
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APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239120005-8"



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PROCESSED AND PROTECTED INFORMATION

Mercury and thiocyanate numbers of cracked gasoline. P. S. PANVUTIN AND N. V. MULOVNIKOVA. Collection Repts. Motor Fuel Research, U.S.S.R. Trans. Sci. Automobiles Produc Inst. Issue 21, 33-46 (1931). The following cracked gasolines were investigated: (1) Baku gasoline from the Winkler-Koch cracking unit of 0.745 sp. gr., initial b.p. 67°, end pt. 181° and 11% over at 100°. (2) Grozny gasoline from the Winkler-Koch cracking unit of 0.749 sp. gr., initial b.p. 65°, end pt. 220° and 7% over at 100°; (3) Petrograd vapor-phase cracked gasoline of 0.804 sp. gr., initial b.p. 65°, end pt. 192° and 40% over at 100°. All gasolines were distill into five fractions: (a) boiling below 60°, (b) 60-95°, (c) 95-122°, (d) 122-150° and (e) 150-200°. These fractions were treated with Hg acetate according to Tausz (slightly modified method) and with thiocyanate according to Kaufmann. The I nos. of untreated gasolines were for (1) (b) 96, (c) 95, (d) 80 and (e) 73; for (3) (a) 299, (b) 113, (c) 83, (d) 84 and (e) 88. Hg acetate removed from (1) (b) 70%, (c) 57%, (d) 40%, (e) 53%; from (3) (a) 100%, (b) 75%, (c) 80%, (d) 82%, (e) 75% of olefins. The thiocyanate nos. were for (1) (b) 63, (c) 48, (d) 40, (e) 32 and for (3) (b) 67, (c) 40, (d) 20, (e) 23. It appears that the thiocyanate acts somewhat differently than Hg acetate on the olefins present in cracked gasolines. Repts. are described in detail and tables and diagrams are given.

A. A. BOGDANOV

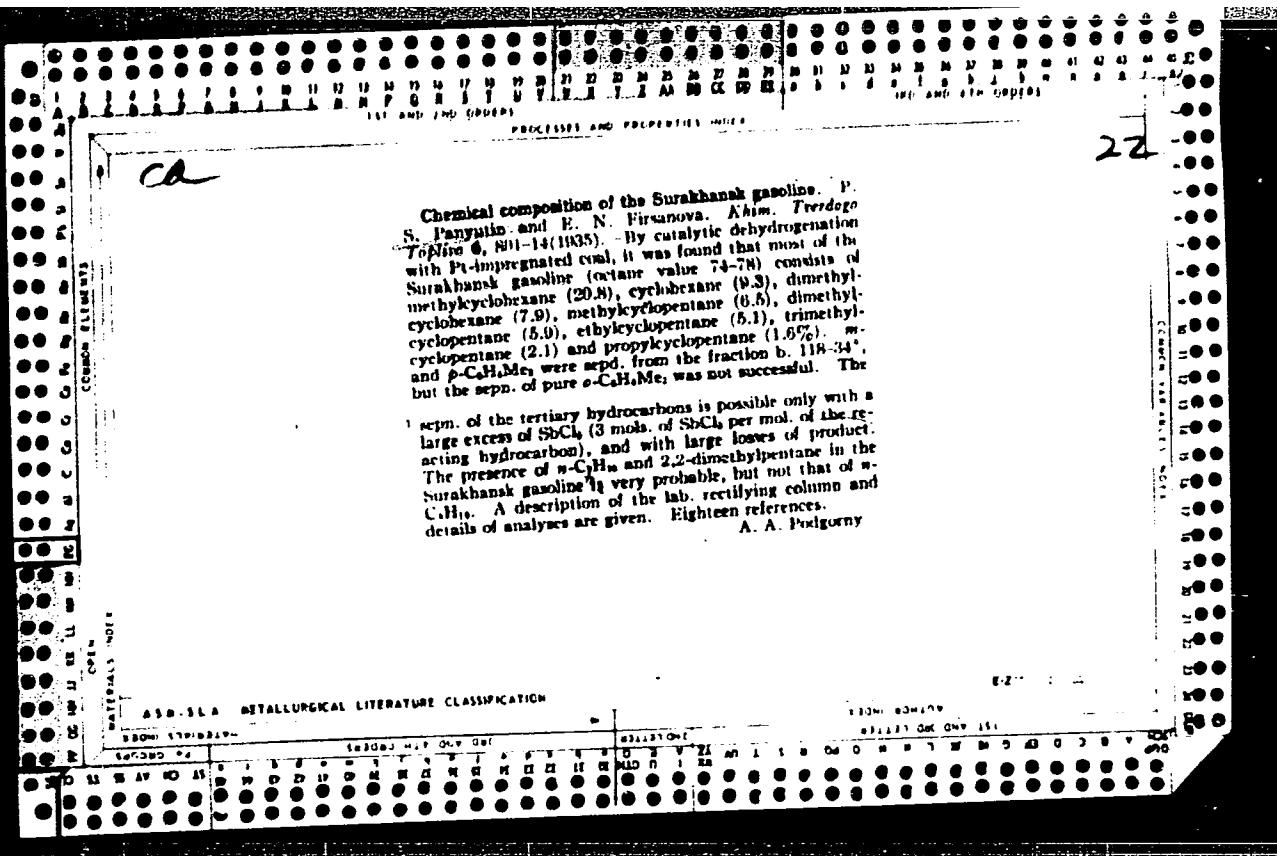
## ASB-16-A METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION

PANYUTIN, P. S.

Hygroscopicity of alcohol. P. S. PANYUTIN AND M. N. TYUKINA. Collection Repis. Motor Fuel Research, U. S. S. R. Trans. Sci. Automotive-Tractor Inst. Issue 21, 48-58(1031).—Ninety-six and 99.9% alc. and a mixt. of alc. and benzene (1:1) were exposed to 100 and 58% moist air in a specially constructed app. Aq. and 99.9% alc. decrease in strength in the same way, represented by a straight line. The absorption of the moisture is almost directly proportional to the temp. The velocity of water absorption depends on the amt. of water vapor which diffuses in a time unit from the space above the container holding the alc. to the surface of the latter, and this amt. is inversely proportional to the distance of the liquid surface and the edges of the container. The velocity of the absorption of moisture depends upon the relative moisture of the air. The distribution of the moisture in the alc. is almost simultaneous. The amt. of water absorbed by the alc.-benzene mixt. in the time unit is not less than that absorbed by pure alc.

A. A. BOHITLINGK



Separation of unsaturated compounds from a cracked gasoline. P. S. Panarin and R. Ya. Rabynovitch. Akad. Nauk SSSR, Inst. Khim. Protsessov i Obrabotki Polimerov, Moscow, U.S.S.R. Zhur. Tekhnicheskoy Kemi 7, 161-65 (1963). Olefins were separated by bromination. Fractions of cracked gasoline were brominated by the method of Sakhman and Ulichnev (Zhur. Tekhnicheskoy Kemi 27, 1954). The bromides obtained were decomposed by a Zn-Cu couple in alk. soln. by the method, slightly modified, of Vlasatkin and Ulib (Zhur. Tekhn. Khim. No. 20, 445(1973)). The control experiments with straight-chain olefins showed the absence of polymerization and isomerization, but further investigation should be made on the behavior of cycloolefins, naphthenes and other unsatd. compds. Details of procedure are given. Twenty-one references.

A. A. Podgornyy

22

Determination of ash in lubricating oils. P. S. Panfil'yan and V. N. Tsvikova. *Neftegaz. Khim.* 1938, No. 2, p. 54-5. Thirty cc. of the oil is dehydrated, freed from soot, admixed, and put in a weighed Wuerz flask. The flask is then weighed with the oil and connected with a reflux condenser provided with an adapter (10 cc.) and the system is connected to a vacuum pump. The low-boiling fraction is distd. at 15-5 mm., until 70.00% depending on the kind of oil; of the distillate is collected in the adapter. The ash determin. is then carried out in two ways. (1) The flask is weighed and, after warming, 2-3 g. of the residue is transferred to a weighed porcelain dish (20-25 cc.), cooled, and weighed with the dish. The determin. is then continued in the usual manner and the percentage of ash is calcd. from ash =  $(ab - cd)/dt$ , where  $a$  is the wt. of the ashing,  $b$  that of the residue,  $c$  that of the sample, and  $d$  that of the residue transferred to the dish. (2) The residue in the flask is dissolved in five 5-cc. portions of  $\text{CaH}_2$ . The contents of the dish are then evapd., ignited, weighed and the percentage of ash is calcd. from ash =  $(a - b)/dt$ , where  $b$  is the wt. of the sample. A. A. Podgorny

ASA-31A METALLURGICAL LITERATURE CLASSIFICATION

21

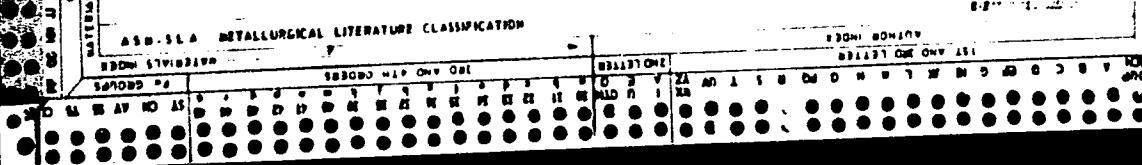
Composition and structure of organic compounds as a key to their use as a motor fuel. P. S. Panyutin. *Trudy Sistem Akad. Nauk Org. Khim.* (U. S. S. R.) 1959, 289-318. Published data on the detonation resistance of individual hydrocarbons are used in an attempt to correlate knock with chem. constitution. For paraffin hydrocarbons the relationship becomes more apparent if the isomers be regarded as substituted derivs. of the  $\pi$ -paraffins of the same chain length. The presence of "free"  $\text{CH}_3$  groups, i. e., those positioned between two other  $\text{CH}_3$  groups, reduces the knock resistance (as measured by its aniline equivalent). This is thought to be due to their high resistance to oxidation during the period preceding the formation of flame in the cylinder. Tertiary C atoms increase knock resistance, e. g., 3-methylpentane has an aniline equiv. 7 points higher than that of  $\pi$ -pentane, while the introduction of an addnl. "free"  $\text{CH}_3$  group produces a 7-point decrease, as in  $\pi$ -hexane. Olefins having the double bond near the end of the chain have a knock resistance similar to that of paraffins. Although the quant. value of the increment for a double bond is not known, an attempt is made to apply the above rules to certain classes of olefins such as homologs of pentene, cyclic olefins and diolefins. Some of the diolefins have an exceptionally high knock resistance, but only a low allowable boost

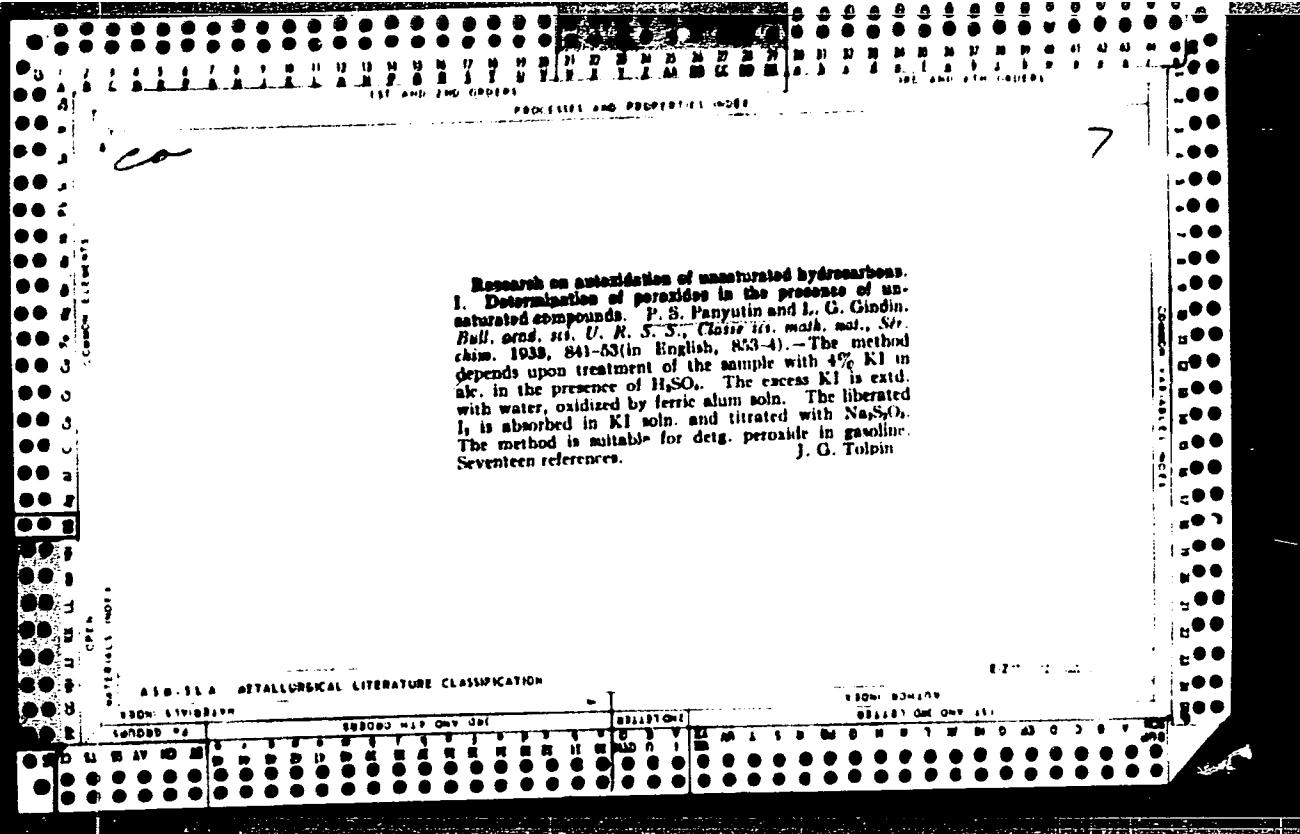
ratio, in contrast to naphthenes. Aromatics, owing to the compactness of their mol. and absence of  $\text{CH}_3$  radicals, have a high knock resistance. Isomerization of aromatics affects knock resistance chiefly when it occurs in the nucleus. The inhibiting action of the ring on  $\text{CH}_3$  groups in alkylated aromatics extends as far as the third C atom in the chain.

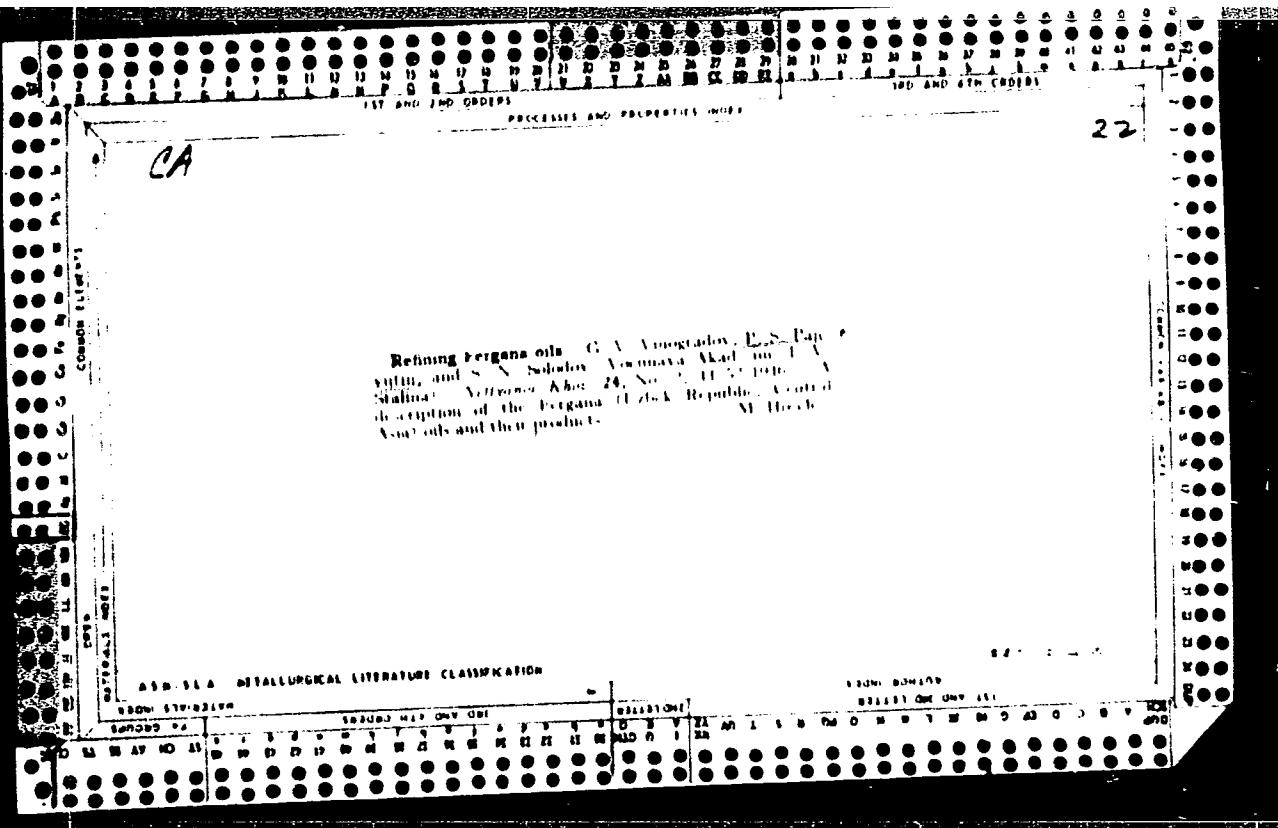
Hans C. Metzner

## ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA DETERMINATION OF THE SPECIFIC GRAVITY OF OILS BY THE METHOD OF 22  
A "SUSPENDED DROP". P.S. Panyatin and B.N. Tishkova. Matyanoe Khos.  
1936, No. 8, 55-6.- Alc.- H<sub>2</sub>O solns. of various densities are prspd., and  
a drop of oil under investigation is placed on each of the alc. solns. until  
the drop of oil stays on the surface of one and sinks slightly on the other  
soln. Then to the lighter soln. so much of the heavier alc. soln. is added  
that the drop of oil remains on suspension. The expts. are carried out at  
20°. The sp. gr. of the final alc. solns. and therefore of the oil is detd.  
from  $\alpha = (ab+ad) / (ac+cg)$ , where  $a$  is the amt. of the first mixt. used on  
the filtration,  $b$  the amt of the second,  $c$  the sp. gr. of the first and  $g$  that  
of the second mixt. A conversion homogram is given. A.A. Boettling







TIKHOIROV, V.V.; PANYUTINA, L.B.

Losses to science. Izv. AN SSSR. Ser. geol. 29 no. 6(11-12) 1963  
(MIR 18:2)  
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(MIRA 18:2)  
Ja '65

1. Geologicheskiy institut AN SSSR, Moskva.

TIKHOMIROVA, V.V.; PANYUTINA, L.B.

Losses to science. Izv. AN SSSR. Ser. Geol. 3. no. 1:134-137  
(Geol. F.:  
Jl '65.

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PETUKHOVA, N.; PERSHIN, A.A.; PANYUTOV, M.G.; MALOVA, I.

Information and news. Veterinariia 38 no.2:95-96 F '61. (MIRA F:1)

TIKHOHOMIROV, V. V.; PANYUTINA, L. B.

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(MIRA 17:5)  
Ja '64.

PANZ, M.

A new type of gas zenerator for the production of fuel gas from low-priced coal.  
p. 215

PROBLEMY PROJEKTOWE HUTNICTWA. (Biuro Projektow Przemyslu Hutniczego, Biuro  
Projektow Przemyslu Stalowego i Biuro Projektow Przemyslu Metalowego) Czliwice,  
Poland, Vol. 6, no. 7, 1958

Monthly list of East European Accession (EEAI) LC., Vol. 9, No. 1, Jan 1960

Uncl.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239120005-8

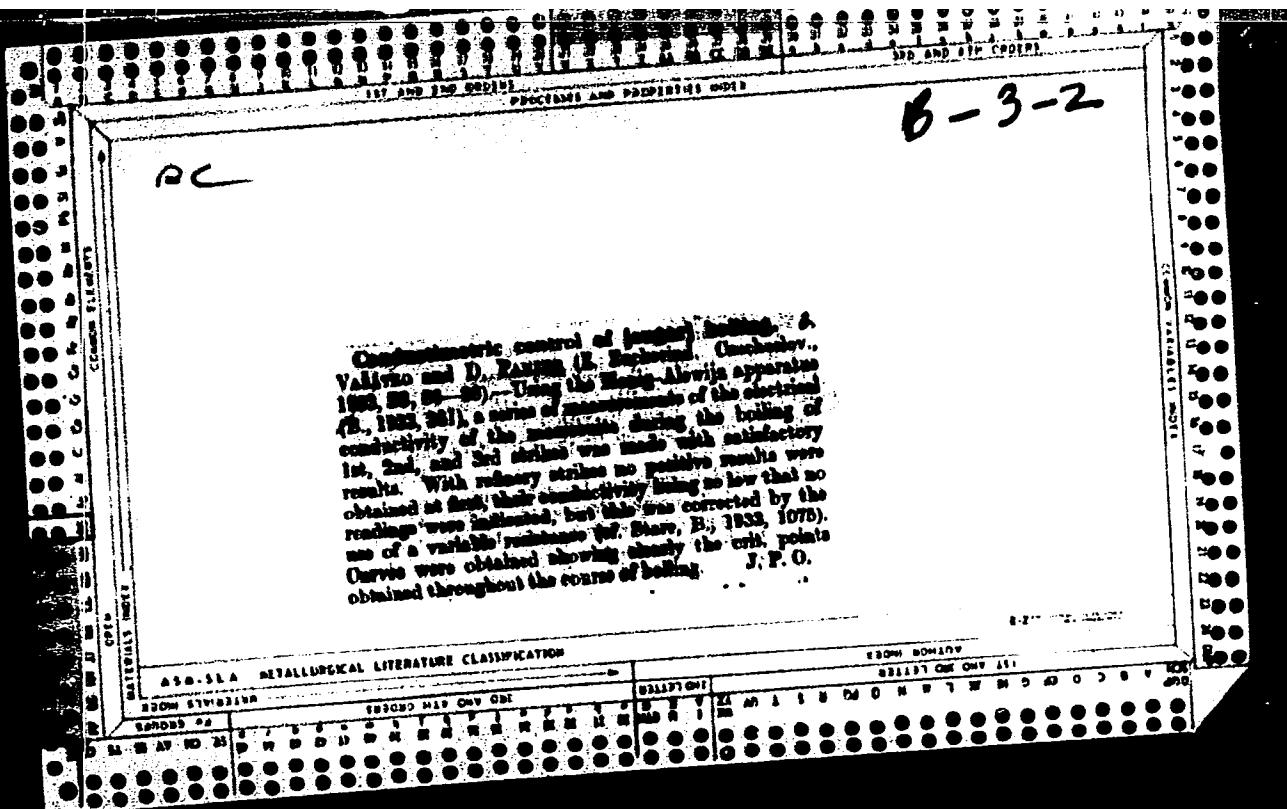
PANZER, ADOLF.

✓ Electrostatic filter for purification of gasses. Vladimir  
Plach, Vilém Lánský, and Adolf Panzer. Czech. 55,624.  
June 16, 1957. L. J. Urbanek

JW Jaf S-

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239120005-8"



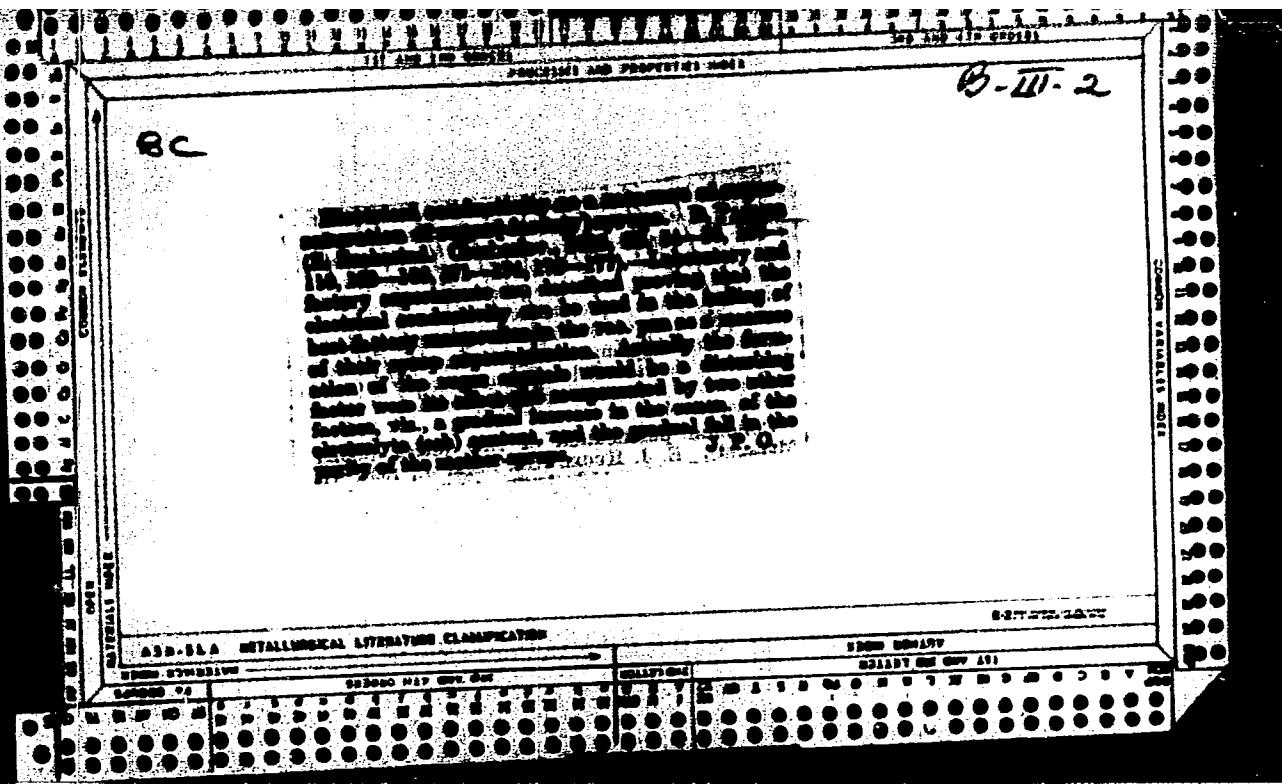
Control of the boiling of sugars by measuring electrical conductivity. J. Valitko and D. Paner. Lisy Českos. 51, 806-7 (1933).—A pair of Homig brass electrodes was placed in the digestion kettles, connected to a 16 v. transformer and a milliammeter with a range of 0-100 millamps, and 66 ohm resistance. Cond. measurements were made throughout the digestion and evapo. processes. In refined sugar solns. the cond. was very low and the range of measurements was of very limited use. During the filling of digestion kettles with the sugar liquors the cond. exceeded 100 millamps. During the course, the cond. decreased to 20 millamps. When grains of sugar began to form, a rise in the cond. to 40-50 millamps followed and remained at this level for 6-8 hrs. with a slow decrease during the last hr. Although a concn. of salts occurs during the digestion, the presence of crystals, increase in viscosity and a lower temp. compensate for this concn. so that the cond. remains about const. The usefulness of the continuous cond. measurements in the factory processes is discussed. Frank Maresh

MATERIALS INDEX

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

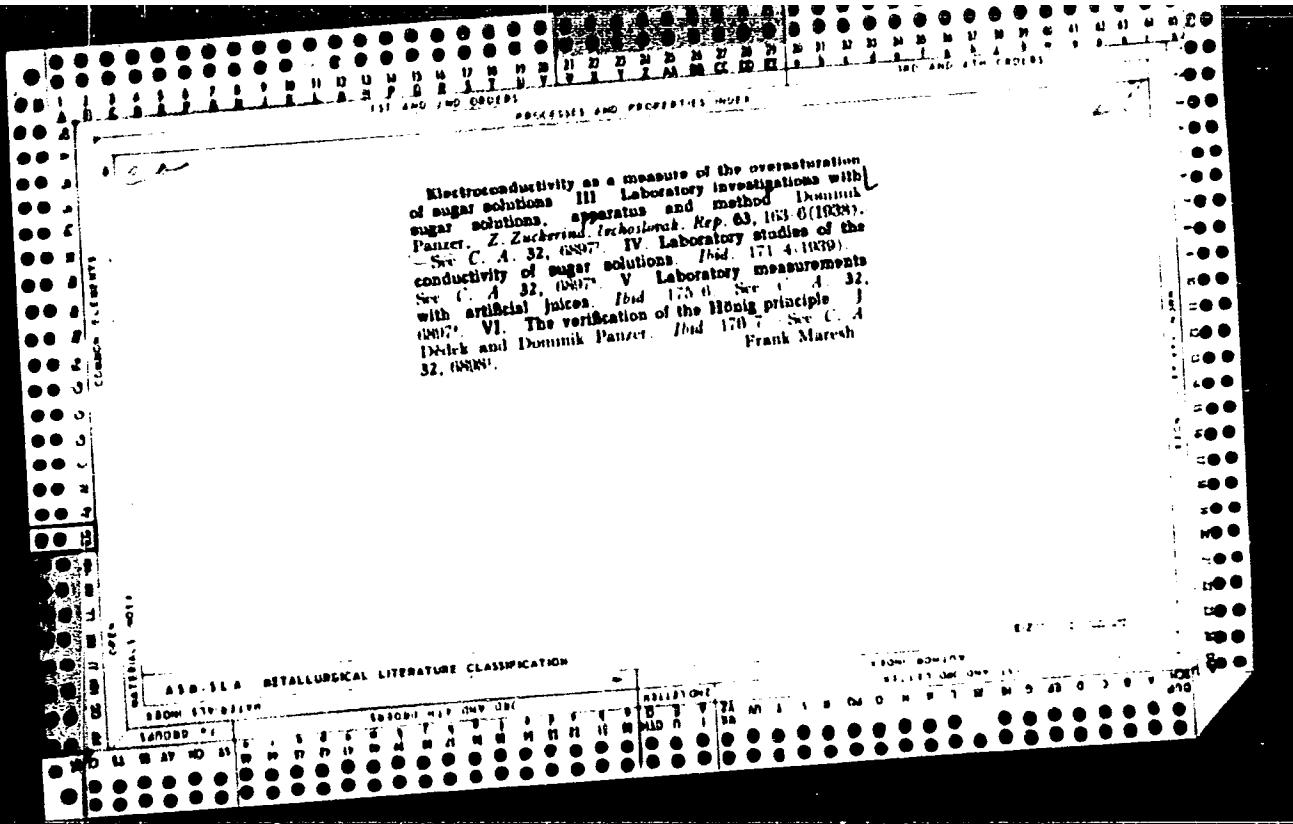
"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239120005-8



APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239120005-8"



The electrical conductivity as a measure of the over-saturation of sugar liquors. I. The Honig principle. Domenico Panetti, Latty Carboner, 58, 361-8, 305-401 (1907). In a sugar factory at Litovle P. followed the elec. cond. of juices during satn. and deid. simultaneously, the temp., dry matter, quotient, sulfate ash, oversatn., etc., during the season. II. What influences determine the conductivity of factory juices? In correlation curves, a definite relation existed between the elec. cond. and the degree of oversatn. This relation was not disturbed by the state of boiling, the purity, the ratio of sugar to ash which ranged from 0.7 to 0.9, the ratio of sugar to concn. of the crystal. sugar. III. Laboratory experiments with sugar solutions: The method and apparatus. Careful detns. repeated in the lab. substantiated the preceding observations made in the factory. IV. Laboratory measurements of the conductivity of sugar solutions. More than 300 detns. of cond. made upon sugar solns. at 50-100° and for quotients ranging from 0.5 to 0.9% show that the cond. remained relatively const. for a fixed satn. over this wide range of temp. and purity. Only at the extreme limits of the preceding ranges of temp. and purity did the cond. rise sharply. V. Laboratory experiments with artificial sugar solutions. The cond. of sugar solns. contg. 0.4%) suspended sugar crystals decreased in the form of a power function. In the range 30-60% crystals the cond. of the solns. decreased almost linearly. Similar curves obtained with factory solns. showed a const. level or a slight rise in the cond. under identical circumstances and in the same range. P. concludes that in factory operations the decrease in cond. produced by the appearance of crystals is compensated by (1) an increase

in the concn. of electrolytes in soln., (2) a fall in the quotient and (3) by the appearance of new syrup. VI. The extent of the dependability of the Honig principle. In a 3-dimensional phase diagram P. plotted the cond. against temps. and quotients for a const. satn. In most of the regions the cond. values formed a flat surface, which rose abruptly for quotients greater than 0.9. Such abrupt changes at the borders of the diagram were ascribed to secondary influences encountered in the measurements, but within wide limits the Honig principle was verified by lab. detns. Frank Marsh

ASB-LLA METALLURGICAL LITERATURE CLASSIFICATION

PAOLAZZO, Ionif

YO is transmitted by 73 stations. Radio no. 10:22 0 '62.  
(MIRA 15:10)

1. Glavnnyy zamestitel' sekretarya Federatsii radiosporta  
Rumynskoy Narodnoy Respubliki.

(Radio operators) (Amateur radio stations)

PAOLO, Filippi (Janov)

Adenovirus infections in otchnolaryngology. Cesk. otolaryng. 11  
no.2:96-103 in '62.  
(OTOLARYNGOLOGY) (ADENOVIRUS INFECTIONS)

PAP, A.; NAGY, C.; ELEFTERESCU, M.

Contribution to the thorough study of pneumatic mining installations. p. 569

STUDII SI CERCETARI DE ENERGETICA. Bucuresti, Romania. Vol. 7, no. 4, 1957

Monthly List of East European Accession. (EEAI) LC, Vol. 8, no. 9, Sept. 1959  
Uncl.

DUMITRESCU, Adrian; PAP, Alexandru

Contributions for determining a general analytic method for the  
prognosis of power consumption in the petroleum production industry.  
Rev electrotehn energet 6 no.1:207-233 '61.

(Rumania—Petroleum) (Mining engineering)  
(Atomic energy)

MICLESCU, Teodor; PAP, Alexandru

On the possibility of using computing machines for determination of  
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MICLESCU, Teodor; PAP, Alexandru

Application fo some modern methods of calculation for determining prospective power balances. Rev electrotechn energet  
9 no.1:59-72 '64

PAP, A.G. (Kiyev)

Prevention is the principle of hospital activity. Sov.zdrav. 18  
no.10:29-33 '59. (MIRA 13:2)  
(HOSPITALS)  
(PREVENTIVE MEDICINE)

PAP.A.B.

[Work practice of the hospital No.4 of the Oktyabr'skiy District of Kiev in Dispensary work to workers and employees of industrial enterprises and the residents of medical districts] Opyt raboty Chetvertoy bol'nitsy Oktyabr'skogo raiona g.Kieva po dispanserizatsii rabochikh i sluzhashchikh promyshlennyykh predpriatii i nasele-niya vrachebnykh uchastkov, Kiev, Gos.med.izd-vo USSR, 1956.116 p.  
(KIEV--DISPENSARIES) (MIRA 10:2)

LUR'YE, Aleksandr Yudimovich, prof., vrach (1897-1958); MAKARCHENKO, A.F., prof., otv. red.; YEVDOKIMOV, A.I., kand. med. nauk, red.; KALINICHENKO, T.Ya., kand. med. nauk, red.; KRUPKO, Yu.A., kand. med. nauk, red.; LOGUNOVA, A.G., kand. med. nauk, red.; PAF, A.G., kand. med. nauk, spets. red.; PANCHENKO, N.I., kand. med. nauk, red.; SAVITSKIY, V.N., doktor med. nauk, prof., red.; SVESHNIKOVA, N.V., kand. med. nauk, red.; TEL'NOVA, R.I., kand. med. nauk, red.; TIMOSHENKO, L.V., kand. med. nauk, spets. red.; YANKELEVICH, Ye.Ya., prof., red.; YANKOVSKAYA, Z.B., red. izd-va; MATVEYCHUK, A.A., tekhn. red.

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1960. 425 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii nauk USSR (for Lur'ye, Makarchenko)  
(GYNECOLOGY)

NIKOLAYEV, A.P., otv. red.; SHKOL'NIK, B.I., kand. med. nauk, red.;  
BAKSHEYEV, N.S., prof., red.; VINOGRADOVA, S.P., prof., red.;  
GRISHCHENKO, I.I., prof., red.; KORNILOVA, A.I., kand. med.  
nauk, red.; KONSTANTINOV, V.A., prof., red.; MEDYANIK, R.V.,  
red.; PAP, A.G., kand. med. nauk, red.; PETERBURGSKYI, F.Ye.,  
prof., red.; SAVITSKIY, V.N., prof., red.; STEPANKOVSKAYA,  
G.S., kand. med. nauk, red.; TIMOSHENKO, L.V., dots., red.;  
YANKELEVICH, Ye.Ya., prof., red.

[Transactions of the Third Congress of Obstetricians and  
Cynecologists of the Ukrainian S.S.R.] Trudy III s"ezda  
akusherov-ginekologov Ukrainskoi SSR. Kiev, Gosmedizdat,  
1962. 370 p. (MIRA 17:5)

1. S"ezd akusherov-ginekologov Ukrainskoy SSR. 3d, Kharkov,  
1961. 2. Deystvitel'nyy chlen AMN SSSR (for Nikolayev).

BIRKOVSKIY, Yu.Ye., red.; GRIGORASHCHENKO, A.Ye., red.; GRISHKINA, I.I., red.; GUTMAN, L.B., red.; KORONITSKIY, L.K., red.; MEL'NIK, M.N., red.; PAVLOV, A.V., red.; PAF, A.S., red.; CHIRKOVA, L.A., red.

[Toxoplasmosis; transactions of the scientific conferences in Kiev, December 21 - 23, 1962, and in Odessa, April 25 - 27, 1963] Toksoplazmoz; trudy nauchnykh konferentsii, sostoiavshikhsya v g. Kieve 21-23 dekabria 1962 r. i v g. Odesse 25-27 apreliia 1963 g. Pod red. M.N.Mel'nikhe. A.G.Pap. Kiev,

(MIRA 18-2)

1. Ukrainskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva im. P.M.Buyka.

PAP, A.G., kand.med.nauk; SHKOL'NIK, B.I., kand.med.nauk

Prophylactic checkup of women. Zdorov'e 9 no.3:12-13 Mr '63.  
(MIRA 1685)  
(WOMEN--HEALTH AND HYGIENE)

PAP, A.G., kand. med. nauk; SAMOYLOV, A.P.

Toxoplasmosis in hemorrhages during pregnancy and labor.  
Akush. i gin. 39 no. 3:62-64 My-Je'63 (MIRA 17:2)

1. Iz Ukrainskogo nauchno-issledovatelskogo instituta okhrany  
materinstva i detstva imeni Prof. P.M. Buyko (direktor A.G. Pap).

MEDYANIK, R.V., otv. red.; PAF, A.G., zam. otv. red.; KHOKHOL,  
Ye.N., red. [deceased]; LUK'ANOVA, Ye.M., red.;  
ANDROSHCHUK, A.A., red.; KOL'NER, R.Yu., red.

[Pneumonia in young children] Pnevmonija u detei rannego  
vozrasta. Kiev, Zdorov'ia, 1965. 229 p. (MIRA 18:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut okhrany  
materinstva i detstva.

PAP, Aleksandr Germanovich, kand. med. nauk; KUCHER, N.V., red.; GITSHTEYN,  
A.D., tekhn. red.

[Prevention of gynecological diseases and cancer of the female  
generative organs] Profilaktika ginekologicheskikh zabolevanii i  
raka zhenskikh polovykh organov. Kiev, Gos. med. izd-vo USSR,  
1960. 100 p. (MIRA 14:7)

1.Zamestitel' nachal'nika upravleniya lechprofomoshchi Minister-  
stva zdorovookhraneniya USSR (for Kucher)  
(WOMEN—DISEASES) (GENERATIVE ORGANS, FEMALE—CANCER)

PAP, Aleksandr Germanovich; SHKOL'NIK, Boris Iosifovich;  
SOL'SKIY, Yakov Porfir'yevich; STEPANKOVSKAYA, G.K.,  
red.

[Hygiene of the woman] Gigiena zhenshchiny. Kiev,  
Zdorov'ia, 1964. 175 p. (MIRA 18:1)

PAP, Antal

Lacquer. Antal Pap., Hung. 113,334, Nov. 15, 1935.  
Five to 10% of viscose, microcellulose, rubber, rubber oil or similar product is dissolved in gasoline, benzene, petroleum, gas oils or spindle oil. For a temporary rust prevention 2 to 5% viscose, rubber, methylrubber or isoprene is dissolved in CS<sub>2</sub>, gasoline, benzene or trichloroethylene. The temporary film can be removed with the same solvent.

SOV/137-58-10-20711

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 53 (USSR)

AUTHORS: Pap, A.M., Sorokin, I.P.

TITLE: Extraction of Gold From Pyrite at the Mally At-Uryakh River  
Placer (Izvlecheniye zolota iz pirita rossyip r. Mally At-Uryakh)

PERIODICAL: Tr. Vses. Magadansk. n.-i. in-ta—I M-va tsvetn. metal-lurgii SSSR, 1956, division 4, Nr 13, 10 pp

ABSTRACT: Preliminary investigations are conducted showing the pyrite at the Mally At-Uryakh River placer to be auriferous. The Au can be recovered by comminution followed by amalgamation and cyanidation. Bibliography: 7 references.

V.S.

1. Gold ores--Processing      2. Gold--Separation

Card 1/1

PAP, A. M.

137-1958-1-99

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 16 (USSR)

AUTHORS: Pap, A. M., Sorokin, I. P.

TITLE: Secondary Minerals in Placers and the Possibilities of Extracting Them (Mineraly-sputniki v rossypyakh i vozmozhnosti ikh izvlecheniya)

PERIODICAL: Kolyma, 1957, Nr 2, pp 12-16

ABSTRACT: A description of the occurrence of certain accessory minerals (cassiterite, scheelite, pyrite, wolframites) in gold and tin placers is presented on the basis of data obtained from the study of concentrate samples. The possibility of their recovery is defined.

A. Sh.

1. Ores--Separation    2. Mining industry--USSR

Card 1/1

Pap. A. M.

137-1958-2-2253

Translation from Referativnyy zhurnal Metallurgiya, 1958, Nr 2, p 6 (USSR)

AUTHOR Pap. A. M.

TITLE Rare and Dispersed Elements in Some Minerals From Placer Deposits (Redkiye i rasseyannyye elementy v nekotorykh mineralakh rossypnykh mestorozhdeniy)

PERIODICAL Kolyma, 1957, Nr 6, pp 35-36

ABSTRACT Studies were made at the VNII-1 (All-Union Scientific Research Institute Nr 1) of the mineralogical make-up of ore-slime samples taken during the washing of sands from different placers of the northeastern USSR. The studies indicated that some of the samples contained more of such minerals as cassiterite, scheelite, wolframite, and ilmenite than did others. In these minerals were discovered the following rare and dispersed elements: in cassiterite Ga, V, In and others; in scheelite: Ga, Ge, and In; in magnetite Ga, V, Ge, and Ti; in ilmenite: Ge, Ga, and V; in pyrite In. The content of rare and dispersed elements in the associated minerals Au and Sn from the placers was found upon analysis to be low or nonexistent

A. Sh.

Card 1/1

1. Mining--USSR 2. Ores--Washing--Processes

3(7)

AUTHOR:

Pap, A. M.

SOV/20-125-6-47/61

TITLE:

Basic Rocks of the Crystalline Basement of the Belorussian-Lithuanian Massif (Osnovnyye porody kristallicheskogo fundamenta Belorussko-Litovskogo massiva)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1341-1344  
(USSR)

ABSTRACT:

Peculiar dark deep-seated rocks of a basic composition were found among the Upper Cretaceous- and Upper Eccambrian sediments in the Iv'yevskiy rayon, region of Grodno by means of boring (Ref 4). They can be counted among the oldest magmatic formations which are known in the region of the massif mentioned in the title. Geophysical investigations (Refs 2,3) proved increased magnetic properties of these rocks. They are the reason of magnetic and gravitation anomalies of the district of Iv'ye. These anomalies form several strata in the region of the mentioned massif. The rocks were described first in short by Yu. Ir. Polovinkina who referred to them as gabbro or gabbro-norites - this is their name in the publications as well. The author investigated the cores handed over to him by A. S. Makhnach. The results are the object of this paper.

Card 1/4

Basic Rocks of the Crystalline Basement of the  
Belorussian-Lithuanian Massif

SOV/20-125-6-47/61

The rocks were found in a depth of 134.5 and 254.0 m in the villages of Morino and Zubkovichi and bored to a depth of 170.2, 288.8 m respectively. They are dark grey, almost black, to a great extent altered in gneiss, especially in the upper part. The rocks have a schistous middle-sized granular structure which is caused by a plane-parallel position of the biotite flakes on a general background of the allotriomorphic-granular rock mass. The total mineral composition in the most recent varieties (e.g. of a depth of 287.0 m, village of Zubkovichi) is the following linear percents: plagioclase 52.6, pyroxene 9.8, hornblende - only single grains, biotite 13.1, quartz 5.4, ore minerals 8.6, calcite, serizite, and chlorite 6.9%. Apatite, rutile, and zirconium, a mineral of the serpentine-antigorite group, zoisite and muscovite, finally quartz and microcline exist in single grains. The properties of the enumerated minerals are described. Table 1 gives the chemical analysis. The comparison of the numerical characteristics of the investigated rocks with the normative compositions according to Deli shows above all that they belong to the basite group. Facial changes occur with decreasing depth which are related to

Card 2/4

Basic Rocks of the Crystalline Basement of the  
Belorussian-Lithuanian Massif

SOV/20-125-6-47/6

a secondary change. The individual structural-textural peculiarities of the rocks were probably obtained in the course of the evolution so that its single parts are connected by the common origin. The rocks contain much iron. An intensive sodium separation from the feldspars occurs in the course of the transformation. Potassium is in contrast to this accumulated in the rocks of the loam-mica part. The rocks are to be counted among gabbro and partly to the gabbro-norites. The intensive alteration to gneiss gives the rocks an ortho-amphibolic shape. The alteration to gneiss decreasing with the depth speaks on the one hand in favor of a partial assimilation of the basic part of the old gneiss mass which was the frame of the concerning plutonium, on the other hand it proves an intensive degree of dynamomorphism of the rocks which were involved into the rock formation. These oldest magmatic formations of this region are assumed to belong to the early (lower Archaic?) formation stage of the tectonic-magmatic mobile zone. The magmatic bodies detected by the boreholes of the two mentioned villages are assumed to be equal. There are 1 table and 4 Soviet references.

Card 3/4

Basic Rocks of the Crystalline Basement of the  
Belorussian-Lithuanian Massif

SOV/20-125-6-47/61

ASSOCIATION: Institut geologicheskikh nauk Akademii nauk SSSR (Institute of  
Geological Sciences of the Academy of Sciences USSR)

PRESENTED: December 22, 1958, by D. S. Korzhinskiy, Academician

SUBMITTED: December 20, 1958

Card 4/4

PAP, A.M.

Isotopic analysis in petrology. Kolyma 21 no.2:9-10 P '59.  
(MIRA 12:7)

1. Institut geologicheskikh nauk AN BSSR.  
(Petrology)  
(Radioisotopes--Industrial applications)

PAP, A.M.; KHUDOVETS, I.P.

On the undulating extinctions of minerals in rocks. Dokl. AN BSSR  
3 no.4:168-170 Ap '59. (MIRA 12:10)

1. Predstavleno akademikom AN BSSR K.I. Lukashevym.  
(Mineralogy)

PAP, A.M.

Some correlative signs of granodiorites in the vicinity of Starobin.  
Dokl. AN BSSR 4 no.10:428-431 '60. (MIRA 13:9)

1. Institut geologicheskikh nauk AN BSSR. Predstavлено akademikom  
AN BSSR K.I.Lukashevym.  
(Starobin District--Granodiotites)

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